UNION CARBIDE

Nuclear Division News

Vol. 12, No. 1 • January 15, 1981

ORGDP clean-up task force publishes positive results

80-4880

INSPECT AREAS — The Plant Appearance Inspection Team inspects the Power and Utilities Maintenance area. From left are Tony Dean, who will head the group for 1981; ORGDP manager Kenneth W. Sommerfeld; Jack E. Godsey; Ernie Evans, who headed the group last year; and John E. Owen.

As the year of 1980 came to a close, Ernie Evans, Separation Systems, presided over the fourth-quarter meeting to review and approve the ratings recommended by the Plant Appearance Inspection Team.

Evans, who served as chairman of the 1980 program, reflected back on the January organizational meeting and the main theme of the campaign, "Making Things Better for Yourself." He spoke of the dedication and support of the inspection team, area chairmen, and individual workers in taking positive steps to improve the working environment in the plant In addition, he stated that a neater and cleaner plant is a safer working environment, and based on this premise, our accomplishments were well worth the time and effort.

As specific examples, he sited improvements in the interior and exterior of the steam plant; the exterior, main corridors, employment

(Please turn to page 8)

Tax base for Social Security goes up this year, rates too

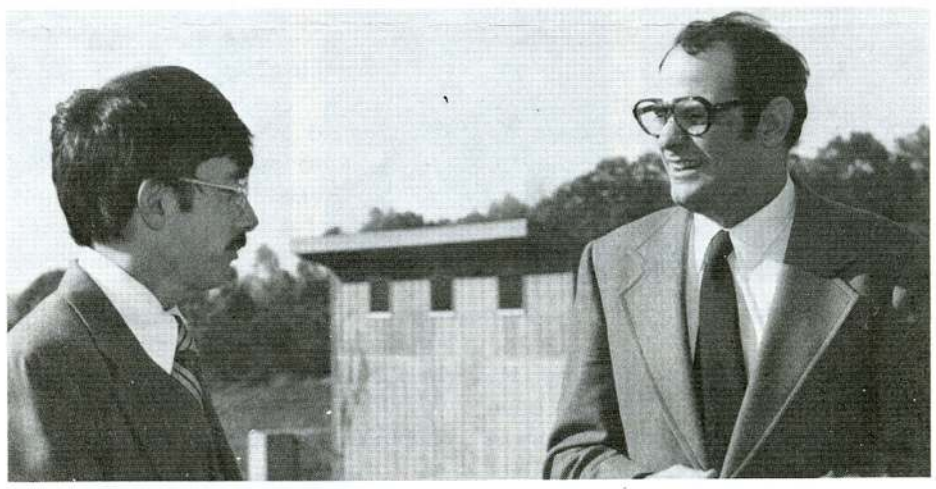
Social Security (FICA) taxes have gone up again! And the base has increased too, effective January 1. The rate changed from 6.13 percent to 6.65 percent, and the maximum earnings base for 1981 is increased from $25,900 to $29,700. This makes the maximum deduction rise from $1,587 to $1,975.05.

The accompanying table shows the history of the changes. Note that the tax rate from 1966 to the present includes both FICA tax and Medicare tax rates. The figures are combined to save space.

CHANGES IN SOCIAL SECURITY TAXES THROUGH 1981

Year	Tax Rate	Wage Base	Employee Tax	Employer Tax	Total Tax
1937-49	1.0%	$3,000	$30.00	$30.00	$60.00
1950	1.5%	3,000	45.00	45.00	90.00
1951-53	1.5%	3,600	54.00	54.00	108.00
1954	2.0%	3,600	72.00	72.00	144.00
1955-56	2.0%	4,200	84.00	84.00	168.00
1957-58	2.25%	4,200	94.50	94.50	189.00
1959	2.5%	4,800	120.00	120.00	240.00
1960-61	3.0%	4,800	144.00	144.00	288.00
1962	3.125%	4,800	150.00	150.00	300.00
1963-65	3.625%	4,800	174.00	174.00	348.00
1966	4.2%	6,600	277.20	277.20	554.40
1967	4.4%	6,600	290.40	290.40	580.80
1968	4.4%	7,800	343.20	343.20	686.40
1969-70	4.8%	7,800	374.40	374.40	748.80
1971	5.2%	7,800	405.60	405.60	811.20
1972	5.2%	9,000	468.00	468.00	936.00
1973	5.85%	10,800	631.80	631.80	1,263.60
1974	5.85%	13,200	772.20	772.20	1,544.40
1975	5.85%	14,100	824.85	824.85	1,649.70
1976	5.85%	15,300	895.05	895.05	1,790.10
1977	5.85%	16,500	965.25	965.25	1,930.50
1978	6.05%	17,700	1,070.85	1,070.85	2,141.70
1979	6.13%	22,900	1,403.77	1,403.77	2,807.54
1980	6.13%	25,900	1,587.67	1,587.67	3,175.34
1981	**6.65%**	**29,700**	**1,975.05**	**1,975.05**	**3,950.10**

In this issue . . .



William Fulkerson, ORNL Energy Division director, thanks Edward Stickle, left, for submitting the Annual Cycle Energy System (ACES) house as a candidate for the National Society of Professional Engineers' outstanding engineering achievemnt award. Stickle, Y-12 Engineering, served as awards program chairman for the Oak Ridge Chapter of the professional group in 1980. Additional details on page 2.

Also in this issue:

FIA interest now up to 9.75%

The effective annual interest rate for the calendar year 1981 will be increased to 9.75%. This rate will apply to *all* money in the Fixed Income Fund, not just to money added during the year.

The rate for 1980 has been 9.1%.

In addition, Metropolitan's guarantee of a rate no lower than 8.6% remains in effect through 1982.

If you wish to make any changes in your Savings Plan designation, or have questions concerning the plan, see your Benefit Plans representative.

8821-80

Recent Retirements

P81-003 P81-004

T. J. Bush
Guard Department
Y-12
36 years service

Paul E. Trent
Development
Y-12
30 years service

Charlene S. Smith
Medical
Y-12
29 years service

Rudolph Pauluzelle
Development
Y-12
35 years service

Edward G. Bohlmann
Chemistry
ORNL
37 years service

Wade H. Adams
Engineering
ORGDP
31 years service

Ray B. Gann
Cascade Operations
ORGDP
21 years service

Alex C. Tinley
Instrumentation
and Controls
ORNL
35 years service

Cascade coordinators named at ORGDP

Brooks

Honeycutt

Watson

Robert K. Brooks, Presley W. Honeycutt and Billy J. Watson have been named cascade coordinators in the Operations Division at ORGDP.

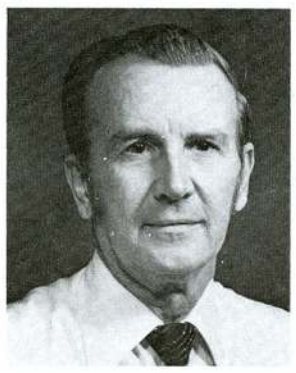
Brooks, a native of Bath Springs, Tenn., served five years in the U.S. Army before joining Union Carbide in 1945. He is married to the former Nell J. Sturgill. They live at 201 East Sheridan Place, Oak Ridge. They have two daughters, Barbara Brooks and Sandra Whitler and a son, Kenneth.

Honeycutt, a native of Rienzi, Miss., joined Union Carbide in 1945 after working with Reid Brothers Clothing. He is married to the former Louise Carson, and they live at 104 Poplar Road, Oak Ridge. They have a son, Ronald.

Watson was born in Cherokee County, Ala., and has attended Tennessee Technological University. He is a veteran of the U.S. Army and worked with General Motors before joining Union Carbide in 1969.

He lives at 45 Lucinda Lane, Harriman, with his wife, the former Joan M. Ellis. They have two children, David and Donald.

McAlister named design engineer



McAlister

Don G. McAlister, Y-12 Electrical Engineering, has been promoted to a design engineer.

A native of Knoxville, he studied engineering at the University of Tennessee Extension Program and the International Correspondence School. He joined Union Carbide in 1951.

McAlister and his wife, Norma, live at 110 Pratt Lane, Oak Ridge. They have four children, Dan, Julie, Sandi and Chris.

Thomas E. Stelson, assistant secretary for Conservation and Solar Energy, was presented a plaque honoring DOE for support of the ACES demonstration house during his recent visit to ORNL. Shown from left are Robert F. Collignon, NSPE's Tennessee Director; Robert E. Minturn, ORNL, ACES program director; and Stelson.

ACES demonstration house named NSPE award winner

The Annual Cycle Energy System (ACES) demonstration house, located off Alcoa Highway in Knoxville, has been selected by the National Society of Professional Engineers (NSPE) as one of ten outstanding engineering achievements in the U.S.

The house, which was built in 1977, uses a unique energy-conserving system developed by ORNL researchers to provide space heating, cooling and hot water. Tests of the ACES during the past three years have shown that it uses less than half the energy required by conventional systems.

Ed Stickle, Y-12 Engineering, entered the demonstration house in competition sponsored by the Oak Ridge Chapter of the Tennessee Society of Professional Engineers (TSPE). After it won at the local level, it was submitted to NSPE for national consideration.

The NSPE plaque was presented to Thomas E. Stelson, DOE assistant secretary for Conservation and Solar Energy, during recent visit to ORNL. Fourteen ORNL staff members who have made significant contributions to the ACES project were honored with duplicate plaques at an awards ceremony.

They are: Leonard Abbatiello, Van Baxter, Sam Beall Jr., Van Brantley, Roger Carlsmith, Phillip Childs, Harry Fischer, Eugene Hise, Allan Holman, Don Miller, Robert Minturn, John Moyers, Ed Nephew and Grimes Slaughter.

The ACES house is one of three demonstration houses in the Tennessee Energy Conservation in Housing project sponsored by DOE, TVA, the University of Tennessee and the Department of Housing and Urban Development. The other houses are one that uses a solar collection and storage system for heating and providing hot water and a "control" house which uses a conventional heating system.

ORNL staff members receiving plaques at the ACES award ceremony included (from left) Van Baxter, Phillip Childs, Don Miller, Van Brantley, Allan Holman, Ed Nephew, John Moyers, Leonard Abbatiello and Robert Minturn.

Medicine Chest

Use care when shoveling snow

by T. A. Lincoln, M.D.

The possibility of sudden death while shoveling snow has been recognized as a hazard for many years. However, the unique and severe demands that shoveling snow place on the cardiovascular system have not been fully understood. Barry Franklin, exercise physiologist and assistant professor of physiology at Wayne State University, and Dr. Melvyn Rubenfine, chief of the cardiovascular disease section at Sinai Hospital, Detroit, have listed and analyzed the physiological stresses associated with shoveling snow. Newspaper reports may contain examples of sudden deaths while shoveling snow, but other kinds of exertion such as tennis, jogging or mowing the lawn also cause fatal heart attacks. Does snow pose a unique hazard?

Massachusetts study

The Center for Disease Control, Bureau of Epidemiology, found a 24 percent increase in deaths due to heart attacks during and after a February 1978 blizzard in Massachusetts. The snowstorm lasted only two days, but the death rate remained high throughout the following week. Most of those who died were men, and age was not necessarily the primary factor.

A blizzard normally causes various nonspecific stresses such as transportation disruption, eating delays, isolation and exposure to cold temperatures. These factors might increase the heart attack rate in those who are already vulnerable. If so, one would expect to find a compensating dip in mortality rates after the temporary increase associated with the storm. In the Massachusetts study, there was no dip after the excess had occurred, suggesting that those who died were not people whose imminent deaths were precipitated by the storm.

Winter stresses

CDC researchers speculated that most of the increase they saw was due to a major stress that killed people who otherwise were not obvious candidates for heart attacks. They suggested that, of the 145 million Americans who live in areas likely to receive severe snowstorms, as many as 1,000 die each winter as a result of shoveling snow. Some heart attacks are related to the cold in general, struggling through the snow, pushing cars, etc. But the single biggest stress appears to be shoveling snow.

associates point out that shoveling snow is extremely strenuous. Lifting a shovel of snow weighing approximately three pounds, taking two steps and throwing the snow at the rate of ten shovels a minute is the equivalent of running 5.5 miles per hour (about an 11-minute mile). When the snow and shovel weigh 5 pounds, it is the equivalent of running 9 miles per hour (a 6.7-minute mile)!

Mechanical efficiency less

Comparing the stress to running, however, is not adequate. The smaller muscle groups in the arms are mechanically less efficient than the big muscles of the thighs and legs. Mechanical efficiency (the ratio of external work output to oxygen requirements) is lower doing work with the arms than with the legs.

People shoveling snow also suffer additional cardiac strains. Exerting oneself while standing upright and still can cause pooling of blood in the lower extremities and a decrease of blood returned to the heart. Thus, the heart has to compensate by beating more rapidly.

Isometric exertions

Shoveling snow is essentially an isometric exertion like weight lifting, resulting in a disproportionate rise in blood pressure and an increased load on the heart. Also, when most people lift, they close their glottises and "grunt." This causes sudden changes in heart rate and blood pressure which can precipitate a fatal fibrillation. Inhalation of cold air can also cause a reflex constriction of the coronary arteries.

In their article in the December 1980 issue of *Physician and Sports Medicine,* Franklin and Rubenfine recommend that elderly people or people with high blood pressure or known heart disease should not shovel snow. Men over 40 should warm up before beginning to shovel, pace themselves and use small loads with a short shovel.

Substances to avoid

Coffee, tea or cola beverages should be avoided before or during shoveling, since caffeine increases the heart rate and makes it more vulnerable to rhythm disturbances. Alcohol, which may decrease coronary blood flow, also should be avoided. The use of tobacco also may be dangerous, since it increases the heart rate, diminishes the circulation of blood to muscle groups and increases the risk of chaotic rhythm disturbances in the heart. It is conceivable that smoking a cigarette while drinking a cup of coffee during a rest break could be just enough to precipitate the heart attack after returning to shoveling snow.

In spite of attempts at adequate conditioning, few people are physically prepared to shovel snow. If they tackle the job with vengeance because they may be late for work, they may never get there! When snow is predicted, putting the car on the street the night before or getting up an hour early may prevent the need for "panic" shoveling. If the snowfall is heavy and the job is going to be large, plan to get some help, or take it on in slow, small increments.

Shoveling snow is much more strenuous than most people realize. Those over 40 often forget that their cardiovascular systems have aged, even though they may never have had any symptoms. Even joggers or tennis players should remember that shoveling is a unique strain and that they may not be adequately conditioned. Even the most fit should be extremely cautious.

Anniversaries

Y-12 PLANT

35 YEARS

John Sewell, Equipment Services.

30 YEARS

Charles F. Peterson, B-2 Expansion Assembly; Howard Garrison, General Shops; Charles S. Scarbrough, Guard Department; Newell M. Standridge, Utilities Administration; Chelton T. Bunch, H-1 Foundry; Curtis A. Duff, Timekeeping Department; William P. Campbell, Alpha 5 East Shop; Thomas J. Lewis, Engineering; Tillman B. Phillips, Materials and Services; George B. Borella, Equipment Services; John C. Bryan, Beta 2 Chemistry; and William A. Sahr, General Shops.

20 YEARS

Martin A. Broders, Edsel L. McGhee, William T. Calhoun and Clarence W. Huffaker.

ORGDP

30 YEARS

Hugh Cooper, Engineering; Esther Case, Separation Systems Division; James Cox and John Hamby. Maintenance Division.

25 YEARS

Charles Francis and Curtis Anderson.

20 YEARS

Robert Hale.

Patent granted

Thomas C. Quinby, ORNL, for "High-Temperature, High-Pressure Bonding of Nested Tubular Metallic Components."

Save Energy / Share The Ride

Y-12 PLANT

VAN POOL RIDERS from Maryville/Alcoa to East, Biology and North Portals, straight day. G. D. Coppenger, plant phone 4-1380, home phone Maryville 983-5939.

ORNL

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

RIDE NEEDED from Outer Drive (near New York Avenue, Key Springs Road) to East Portal, 8:00-4:30. Pearl Faison, plant phone 4-5316; home phone 482-4354.

VAN POOL RIDER from West Knoxville (Bearden to Farragut) to East and West Portals, 8:00-4:30. Dean Treadway, plant phone 4-6580; home phone 584-4879.

JOIN or FORM CAR POOL from Norwood Section of Clinton Highway (Jefferson Ward) to East Portal, 8:00-4:30. Elder Mellon, plant phone 4-4241; home phone 689-4461.

RIDE or will JOIN CAR POOL (3 persons) from Kingston, Circle Road, or Exxon Station on I-40, to West Portal, straight day. A. K. Self, plant phone 4-2471, home phone 882-8677.

RIDERS NEEDED for bus from West Knoxville area. Beginning January 5, the following route will be utilized: picking up passengers at Century Plaza, Cedar Bluff Shopping Center, Middlebrook Pike (at Mars Hill Baptist Church and Shannondale Nursing Home), turns on Vanodale Road to Kingston Pike, Cloth World Shopping Center, across from Tennessee Highway Patrol Station. Stops at West, North and East Portals for 8:00 to 4:30 shift. Contact Victor Claiborne, 693-1168 (Knoxville), or E. L. Fair, 4-5723.

Division death

Mr. Burnette

Edward S. Burnette, laboratory supervisor in ORGDP's Technical Services, died January 7 at the Oak Ridge Hospital. A native of Clinton, he joined Union Carbide in 1952 and was a veteran of the Korean War.

Survivors include his wife, Louise R. Burnette, 101 Lakeview Lane, Clinton; daughter, Joanne Hightower; sons, Stephen, William and Michael; sisters, Mary Grace Rice; Lucille Mars and Nelle Gorman; and a brother, Leo.

Services were held at the Holley-Gamble chapel, with burial in Sunset Cemetery.

Research reactors play varied roles at ORNL

(Editor's note: This is the conclusion of a two-part series on research reactors at ORNL. The Graphite Reactor, High Flux Isotope Reactor, Health Physics Research Reactor and Oak Ridge Research Reactor were featured in the December 25 article.)

Bulk Shielding Reactor

The Bulk Shielding Reactor (BSR), a two-megawatt, light-water-cooled and - moderated "swimming pool" reactor, was first operated December 17, 1950. One of the unique features of this reactor, built originally for radiation shielding research, is that it is trolley-mounted on a rolling bridge that permits movement in four directions within the pool to allow flexibility in the use of the reactor.

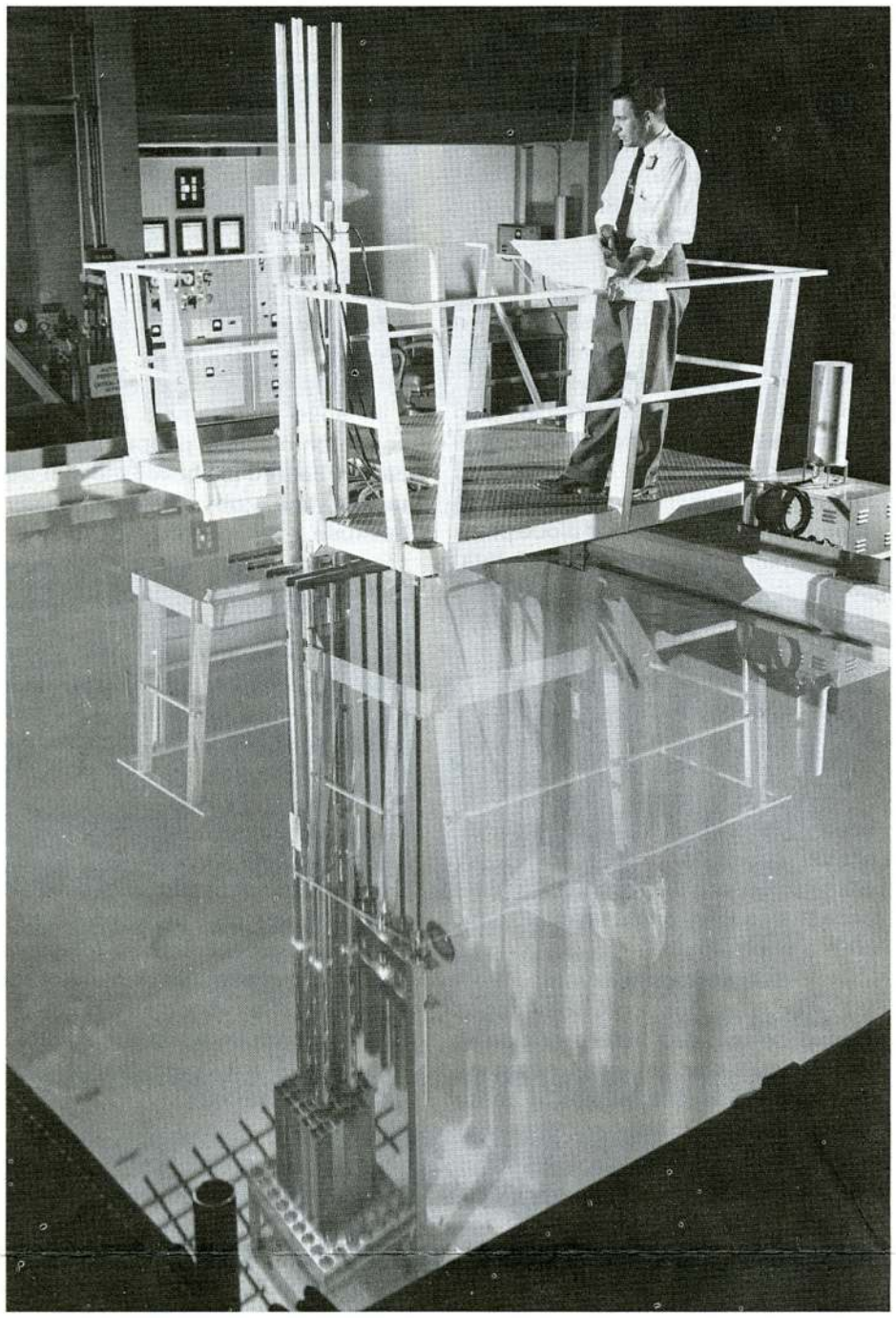
When stripped of all accessory equipment, the BSR resembles a cubical box measuring two feet on a side. Three faces of the BSR's parallelpiped core are available for irradiation of experiments that may be at fixed locations in the pool or supported from the reactor bridge. Current research projects involve steel for use in future nuclear reactor pressure vessels and irradiated silicon that could be used in solar (photovoltaic) cells.

Pool Critical Assembly

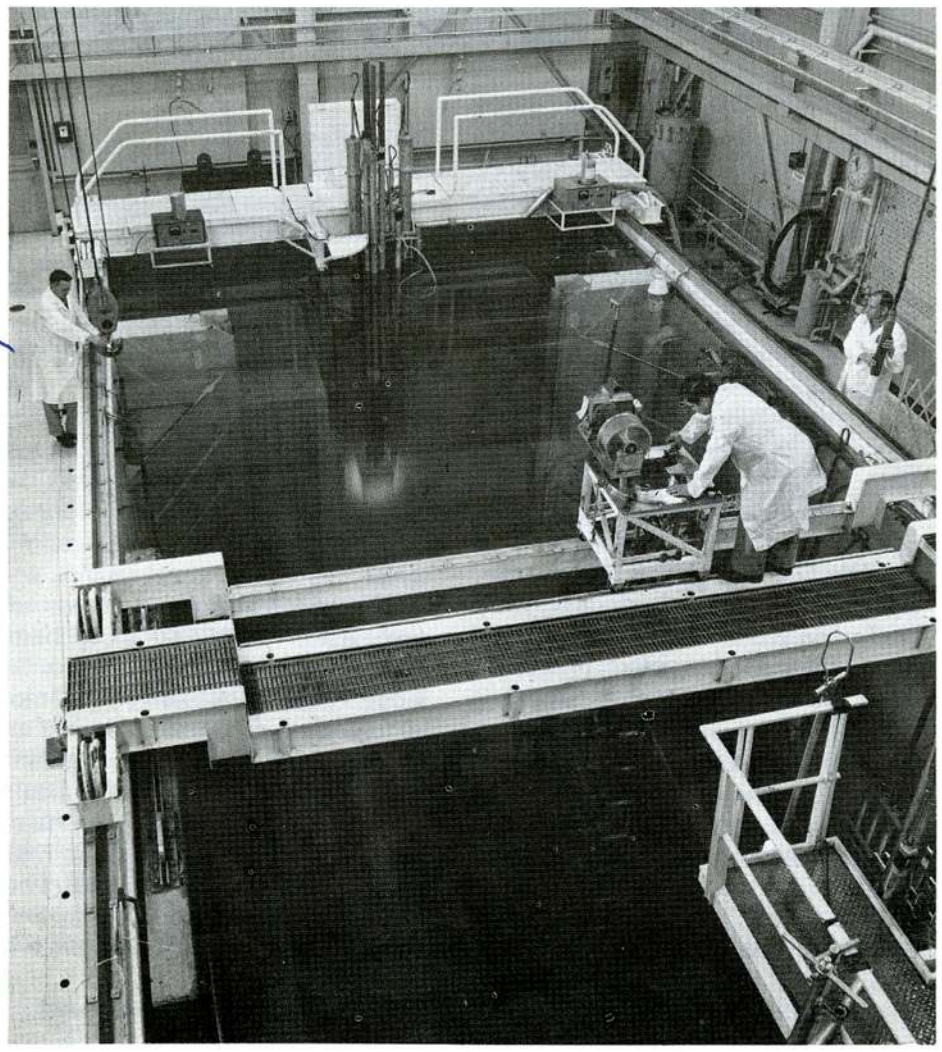
This reactor, which can be operated to power levels of only 10 kilowatts, is a water-cooled and -moderated reactor located at one end of the BSR pool. The PCA is operated on demand for reactivity and flux tests related to fuel for the Oak Ridge Research Reactor and BSR, for instrumentation development and as a training facility for nuclear engineering students from five southern universities and for prospective reactor operators.

Tower Shielding Reactor

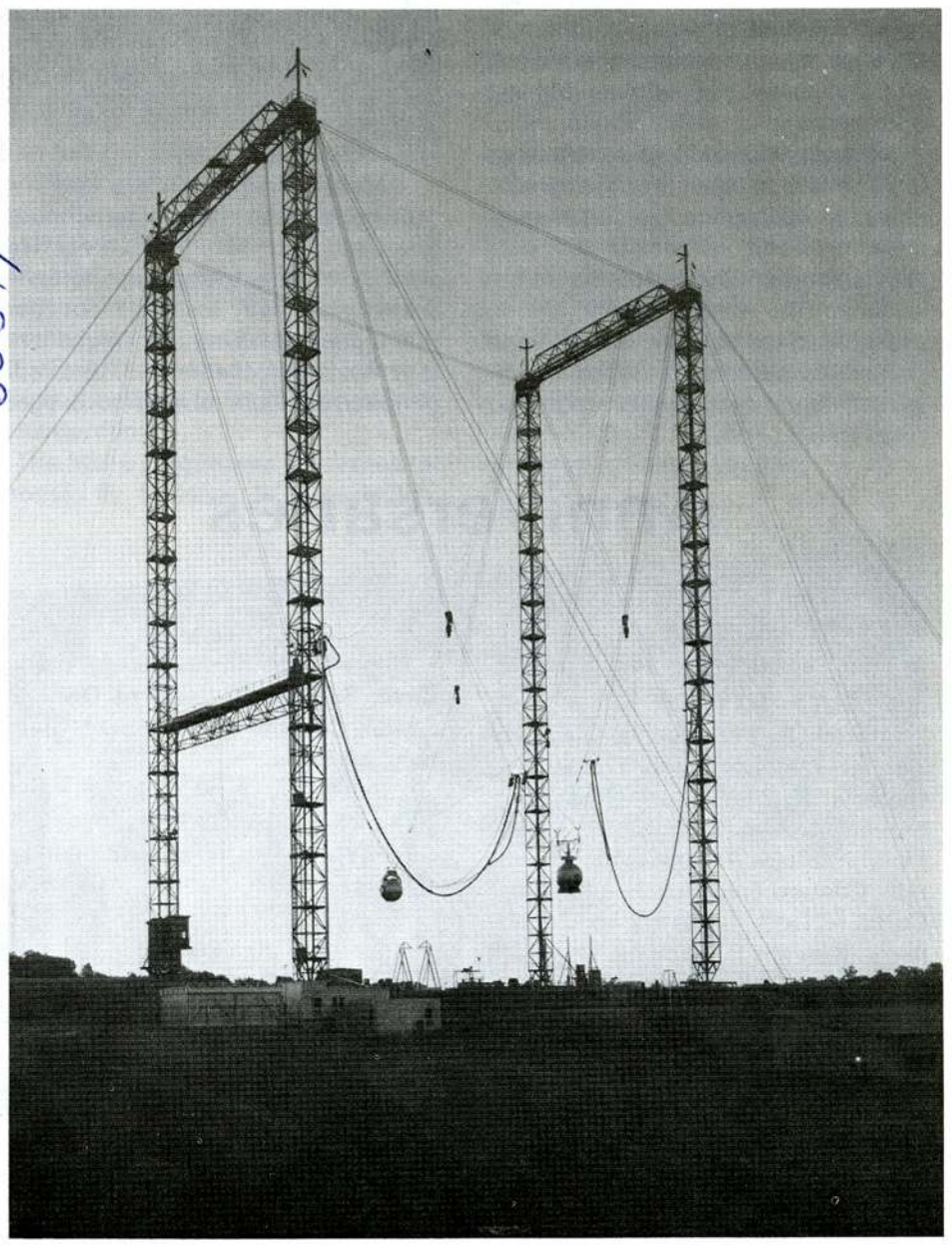
This small, movable, one-megawatt reactor was designed for radiation shielding studies and as an aid in shielding analyses. The reactor is operated in an outdoor area — suspended from 324-foot towers — so that it can be positioned next to large shielding mockups. Reactor controls and shielding instrumentation are located in an underground building, which includes television equipment for viewing a test in operation. The whole facility has a fenced exclusion of greater than 3,000 feet. The facility is used to measure neutron and gamma-ray transport through shielding mockups that are typical of future nuclear reactors, including the Clinch River Breeder Reactor.



Pool Critical Assembly



Bulk Shielding Reactor



Tower Shielding Reactor

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The Graphite Reactor control room holds many memories for Schuiten, who began his career there.

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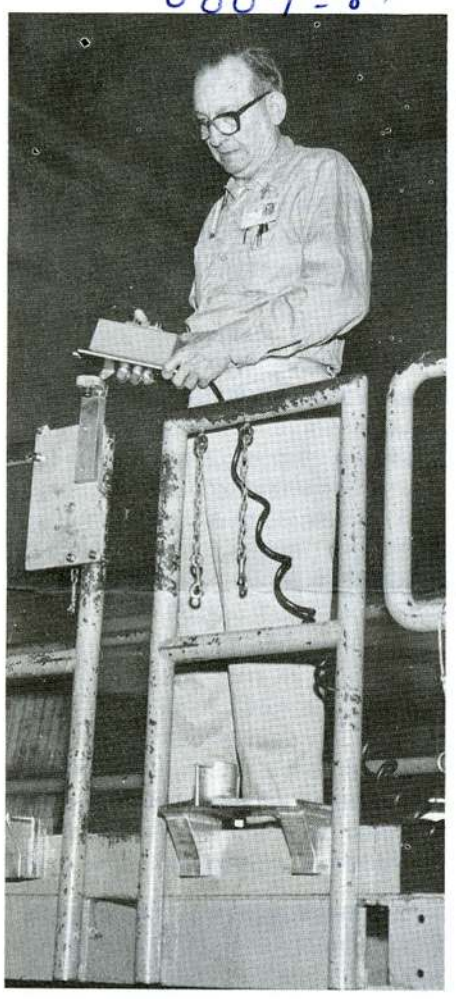
Schuiten makes some checks on the Oak Ridge Research Reactor control panel.

0007-81



Schuiten operates the movable bridge over the Oak Ridge Research Reactor.

At ORNL reactors

Schuiten ends long career as operator

When Willie C. Schuiten of the ORNL Operations Division retired December 31, he ended a 37-year career as a nuclear reactor operator — the longest continuous-service record of any operator in the world.

"I just found something I liked to do, so I stayed with it," Schuiten said of his career, which began January 10, 1944, when he was 29 years old. "I had been a journeyman sheet metal worker on various construction jobs and decided that I wanted to do something different. I hired in at Clinton Laboratories (now ORNL) as one of the first nuclear reactor operators, but I really had no idea of what I'd be doing."

What he was doing was operating the Graphite Reactor, built in 1943 as part of the World War II Manhattan Project. The reactor's original function was to serve as a pilot plant for the necessary research and development for large-scale plutonium production, as well as to produce the first gram quantities of purified plutonium.

Some of America's leading scientists, including Enrico Fermi, were in Oak Ridge to work on the project, and the reactor, in fact, was originally operated by engineers and physicists. Schuiten remembered that the scientists apparently didn't take him into their confidence at first. "I trained for several months before they allowed me to become part of the operating crew and 'turned me loose' with the reactor," he said.

Schuiten, however, still had no idea of the role the reactor was playing in the war effort. "One of the other operators must have known something," he recalled. "He hinted that the work in Oak Ridge might have something to do with a new weapon, but I didn't believe him until I read about the bombing of Hiroshima in the newspaper. The people in charge really did a good job of keeping the project a secret."

After World War II, the Graphite Reactor became an important producer of radioisotopes for medical and research purposes, and Schuiten stayed on as an operator. During his career, he eventually worked on three other ORNL research reactors — the Low Intensity Test Reactor, Oak Ridge Research Reactor and Bulk Shielding Reactor.

Schuiten saw many changes during his 37 years at the Laboratory. He worked under the Manhattan Project, Atomic Energy Commission, Energy Research and Development Administration and Department of Energy; and he was employed by Dupont, Monsanto and Union Carbide.

Schuiten, who built his own house on Watts Bar Lake, plans to remain active during his retirement. He recently purchased a houseboat and is rigging it for night fishing. Schuiten and his wife, Neva, also garden and raise cattle at their lakeside home.

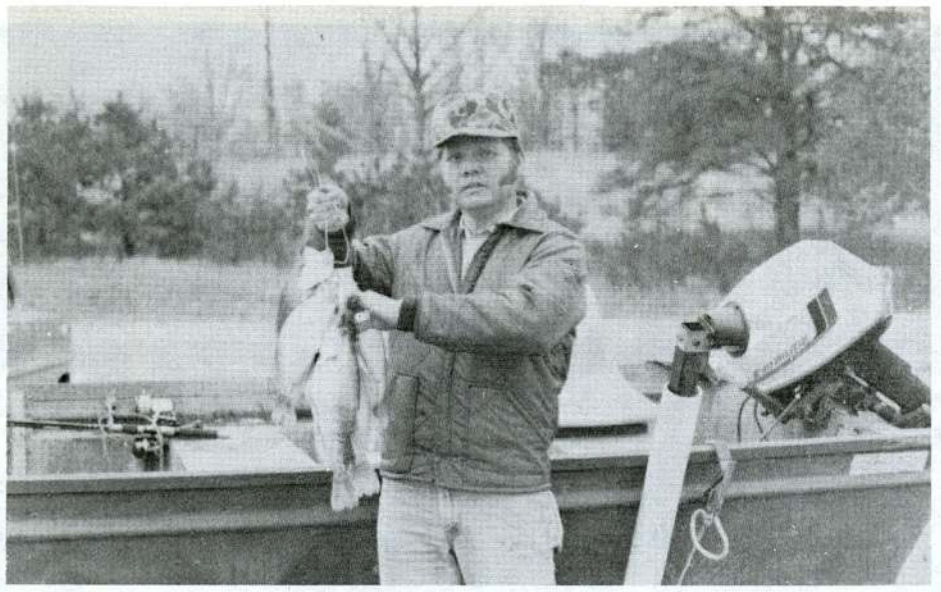
He said he has never regretted his choice of careers. "I never liked sitting at a desk; I always wanted to be moving around," Schuiten added. And he must have enjoyed his work. After all, not many employees can say, after 37 years in the same job, "I liked every bit of it!"

0009-81

0006-81

Schuiten stands at the south side of the Graphite Reactor, where elements in aluminum capsules were placed in graphite blocks and inserted into the reactor for radioisotope production.

"I liked every bit of it," Schuiten said of his 37-year career, in which he operated four research reactors and was employed by Dupont, Monsanto and Union Carbide.



FISHERMAN OF THE YEAR — Jackie Bennett, a draftsman in Paducah's Plant Engineering, has been named fishermen of the year for 1980. Bennett hauled in the best overall catches during the season's nine separate contests which included crappie, black bass, bream, catfish and striped bass. Bennett generously shared his strategy by listing his location preferences. "I fish for crappie on Jonathan Creek, Taylor Bay and Blood River; for bream at Reelfoot Lake; and for catfish below Kentucky Dam," he said. Hardy Pottinger, Cascade Operations at Paducah, followed closely in the race for the title.

Fishing Rodeo winners

ORGDP

ORGDP has announced winners in its last half of 1980 fishing rodeo. The lucky fishermen may pick up their award in Room C-136 in K-1001.

Largemouth Bass

Darrel C. Howard	7 lbs. 4 ozs.

Smallmouth Bass

Larry Hodge	5 lbs. 15 ozs.
E. A. Smith	4 lbs. 8 ozs.
Ronald L. Anderson	4 lbs.

Walleyed Pike

Leslie E. Johnson	5 lbs. 1 oz.

Sauger

Phillip A. Hammock	6 lbs. 2 ozs.
Amos Walters	3 lbs. 5 ozs.
P. D. Brooks	2 lbs. 13 ozs.

Crappie

John D. Hart	1 lb. 1 oz.

Striped Bass

H. E. Walters	2 lbs. 10 ozs.
R. D. Shaffer	2 lbs. 4 ozs.
L. M. Skeen	1 lbs.

Sunfish

W. E. Copeland	1 lb. 1 oz.
Sandy Keen	10½ ozs.

Muskie

J. R. Fox	29 lbs. 8 ozs.

ORNL

ORNL lists winners in its semi-annual fishing rodeo. Their prizes are in Room J-108, 4500N.

Largemouth Bass

R. P. Rosenbaum	5 lbs. 5 ozs.
Esther Thompson	4 lbs. 7 ozs.

Smallmouth Bass

Jerry L. Martin	5 lbs. 10 ozs.
J. P. Heiskell	5 lbs. 4 ozs.
L. R. Loop	5 lbs. 1 oz.

Walleyed Pike

C. R. Schaich	4 lbs. 4 ozs.
A. D. Ryon	2 lbs. 1 oz.

Sauger

B. S. McCown	3 lbs. 12 ozs.

Crappie

F. S. Adams	1 lb. 7.5 ozs.

Striped Bass

M. B. Brewer	1 lb. 9.5 ozs.

Trout

P. E. Phillips	3 lbs. 12 ozs.
M. W. McGuffin	8 ozs.

Sunfish

Gus Testerman	9 ozs.
W. J. Lackey	5 ozs.

Rockfish

Fay Johnson	34 lbs. 8 ozs.
Carroll E. Nix	30 lbs.
W. H. Miller Jr.	24 lbs.

Y-12

Y-12 posts its end-of-the-year winners in its fishing rodeo, and prizes may be collected at the Recreation Office on the first floor of building 9711-5.

Largemouth Bass

Hugh C. Nichols	7 lbs. 5 ozs.
J. E. Cheek	6 lbs. 6 ozs.

Smallmouth Bass

John Wade	5 lbs. 1 oz.
B. O. Miller	4 lbs. 6 ozs.
J. W. Strair	4 lbs. 4 ozs.

Walleyed Pike

J. W. Graves	7 lbs. 9 ozs.

Sauger

R. S. Phillippi	3 lbs. 9 ozs.
E. M. McCullough	3 lbs. 8 ozs.
R. M. Denman	3 lbs. 5 ozs.

Crappie

Winston B. Oliva	1 lb. 5 ozs.
Lysander S. Waters	11 ozs.

Trout

Jack R. Harris	3 lbs. 9 ozs.
Boyd L. Green	3 lbs. 11 ozs.

Rockfish

D. L. Pate	32 lbs. 12 ozs.

Sunfish

Chelton T. Bunch	15 ozs.
W. L. Howard	10 ozs.

Roughfish

D. A. Harrell	7 lbs.
G. H. Caylor	6 lbs. 10 ozs.

Theater party set

A social event is being planned for ORGDP employees and guests February 27 and 28 at the West Side Dinner Theater, Knoxville. Further information will be in the next issue of the *News*.

Around the alleys...

K-25 Wednesday...

First half winners in the K-25 Wednesday night league are the Operators: Charlie Brucke, Paul Ledford, Frank Horton, John Hunt, Bobby Conner and Claude McCuiston. Half-season highs went to Doug Nelson for high handicap series, 723; to Lou Finley and Erie Boble for high scratch series, 634; to Seth Wheatley for high handicap game, 271; to Roy Dukes for high scratch game, 248; and to Lou Finely for the highest average, 187.

ORGDP Women's...

The Bowling Aces took the lead in the second half of the ORGDP Women's League, downing the Guttermaids. Elaine Griffies rolled a high scratch game of 204; while Nelline Ross posted a 648 handicap series. The Payoffs defeated the Ten Pinners by 13 pins in the match of the week.

Classic League...

The Kingpins took the Classic League's first half, a mere one and one-half points ahead of the Splinters, as the All Stars and Atta-Boys tied for third place, only two and one-half points from the top rung. Bob Vandergriff's 730 was high handicap series; and Ron Lapan's 281 was high single handicap game. The Atta-Boys rolled a 3209 for high handicap series of the season.

UCC Mixed...

The Split Images, Randy and Sheila Wood and Trish and Roger Lankford, took the UCC Mixed League's first-half crown, defeating the Scalawags by three points. The Rolling Stones team took high handicap series with 2599; while the Squeakers took high single with an 899. Dave Mosley's 698 was high handicap series; Trish Lankford's 685 was high on the women's side.

K-25 Tuesday...

The All Stars out-rolled everyone in the K-25 Tuesday League, a full three points ahead of the Atoms. The All Stars consist of M. J. Gibson, Hal Gunter, P. K. Kwaak, G. J. Marrow, L. A. Owens, J. H. Peer and Tom Zava. They also took the high series of the season, 3107 in handicap scoring.

ORNL C League...

The Hit Men hold a scant lead in the ORNL C League, rolling past the Easy Rollers by a mere one and one-half points. The Knuckleheads were high during the preholiday week posting a 3115 handicap series. Fred Kitts rolled a 213 single scratch game.

ORNL A League...

The Dynamics hold a five and one-half point lead over the Norms Raiders in the ORNL C League. Norms Raiders' Teasley rolled a 704 handicap series to take highs of the week. The Dynamics' Hurd posted a 265 handicap game.

Family Mixed...

The Carbide Family Mixed League is controlled by the Oops Team, a jump ahead of the Four Chippers. Don Carpenter and Edith Duckworth took high scratch series recently, rolling 594, 568 games.

UCC Monday Mixed...

The first half ended with the Four Eagles in first place, one-half point ahead of the Pacesetters. New team highs were set by the Hot Stuffs, 844/2399 game and series; individual highs belong to Francis Harshaw, 254/632; and Betty Copeland, 239/550. Rick Igou topped all men with a 690 handicap series.

Volleyball Leagues...

End-of-the-year standings in the three volleyball leagues show hot competition in all three groups, as the Net Profits lead the Carbon North crowd; the POI's take the lead in the South Division; and the Hawks take a one-point lead in the Nuclear League.

Standings follow:

CARBON LEAGUE - NORTH DIVISION

Team	Won	Lost
Net Profits	23	1
Environmental Disasters	20	4
Lucky Spikes	21	6
Prime Time Players	18	6
The Spikers	17	10
The Zoo Crew	17	10
Carriers	12	9
Condensed Matter	11	10
Wild Turkeys	13	14
High Ballers	10	14
Zodiacs	11	19
"Tapeworms"	8	16
Net-Heads	6	18
Sluggers	6	21
Bio Rejects	6	21
Thumpers	4	23

CARBON LEAGUE - SOUTH DIVISION

Team	Won	Lost
P.O.I.	20	4
Killer Bees	19	8
Foul Plays	19	8
Buccaneers	19	8
W.G.A.S.	14	10
The Gamblers	12	9
Odds and Ends	15	12
Manipulators	13	11
Cornered Rats	14	13
The Horibas	14	16
Mustangs	12	15
Bombers	9	15
Milton's Monsters	9	15
Short Circuits	6	18
Leaping Lizards	6	18
Abends	3	24

NUCLEAR LEAGUE

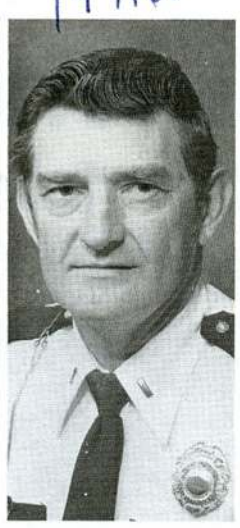
Team	Won	Lost
Hawks	20	1
Con-Fusion	19	2
Dirty Half Dozen	16	5
Dipsticks	18	6
Artie's Army	12	12
Gluons	9	12
Maxwell Demons	8	13
The Lobbers	9	15
Spikers	9	15
Absolute Zeros	6	15
Panthers	6	15
Volleyers	0	21

Brown

Carson

Craze

Greer



Lawson

Murphy

Purcell

Smith

Ten promotions told at Y-12

Ten promotions have been announced at the Y-12 Plant: Lenley A. Brown has been named planner and estimator; Gilbert L. Carson a new supervisor in Utilities; Richard A. Craze a planner and estimator; Jerry E. Greer a supervisor in the Inspection Department; Lee D. Lawson a fire and guard lieutenant; Joan R. Murphy a guard lieutenant; Harold E. Purcell an inspection supervisor; William C. Smith a supervisor in Product Certification; Bruce W. Sproles an inspection supervisor; and James E. Warren a lieutenant in Plant Security.

Brown, a native of Crossville, joined Union Carbide at ORGDP in 1952 after attending the University of Tennessee and working with Tennessee Stone Company and Smith Construction Company. He transferred to ORNL in 1955 and to Y-12 in 1963. He and his wife, the former Mieko Kosuge, live at 100 Gorgas Lane, Oak Ridge. They have three children, Liz, Paul and Jack.

Carson was born in Oneida, and came to Y-12 in 1954 after working in coal mines in Stearns, Ky., and Eagan, Tenn. He is a member of the LaFollette Housing Authority.

Mrs. Carson is the former Betty Bell, and the couple lives at 504 South 12th St., LaFollette. They have five children, William, Danny, James, Roger and Melinda.

Craze, a native of Oak Ridge, has a BS in business administration from the University of Tennessee. He joined Union Carbide in 1979, after working with the family-owned air-conditioning business in Oliver Springs. His wife is the former Sandra Thompson, and they live at 611 Redbud Lane, Oliver Springs.

Greer was born in Chattanooga but grew up in Oak Ridge. He is a graduate of the Training and Technology Program in Y-12, and he joined Union Carbide in 1968 after serving in the U.S. Air Force.

Mrs. Greer is the former Sandra Kisiah, and they live at Route 3, Lakeview Drive, Clinton.

Lawson was born in Kingston and is a graduate of several military police and security schools. He served 20 years as a non-commissioned officer in the U.S. Army.

Mrs. Lawson is the former Jane M. Arndt, and they live at 223 Belvedere Avenue, Knoxville. They have two children, C. Daniel and Lee.

Murphy was born in the Dyllis Community in Roane County and attended Carson-Newman College before joining Union Carbide in 1978. She taught school in the Roane County system for 11 years. She lives at Route 2, Harriman, and has two children, Jeff and Ronnie.

Purcell is a native of Anderson County and joined Union Carbide in 1969 after working at Modine in Clinton. He also worked with U.S. Nuclear as an inspector. He served in the U.S. Navy from 1958 until 1962.

He lives at Route 7, East Wolf Valley Road, Clinton.

Smith served in the U.S. Navy for nine years before joining Union Carbide in 1954. He is a native of Mt. Vernon, Tenn.

Mrs. Smith is the former Brenda Burdette, and they live at Route 2, Cedar Circle, Powell. They have a daughter, Missy.

Sproles was born in Loudon and attended schools in Oak Ridge. He has an AS degree from Roane State Community College in management and supervisor technology. He joined Union Carbide in 1967 after serving in the U.S. Air Force.

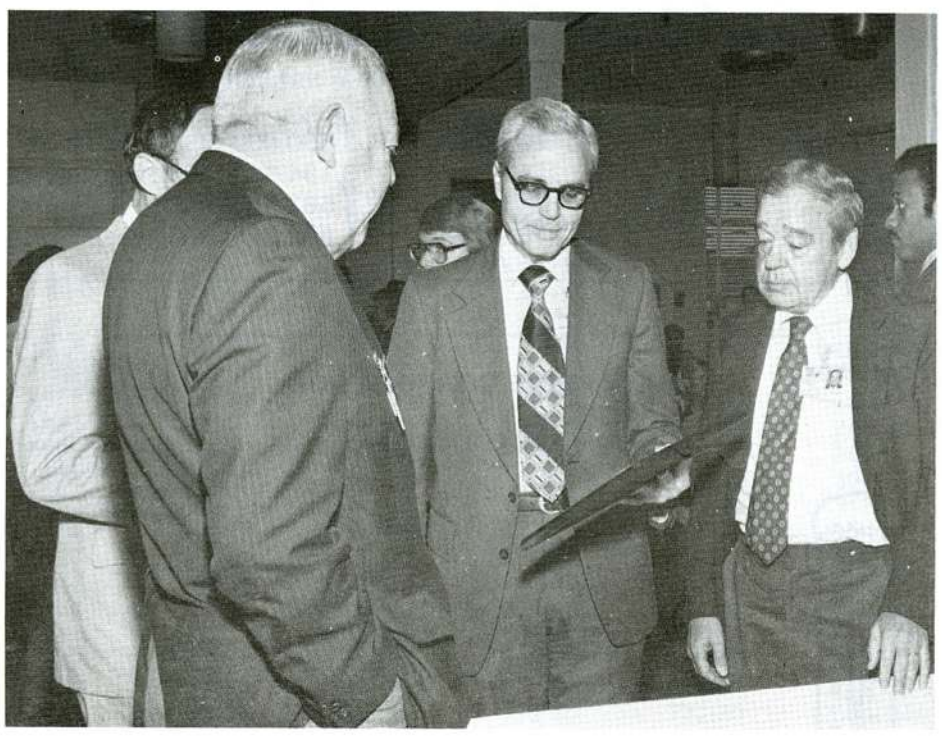
Sproles

Warren

Mrs. Sproles is the former Sharon Cox, and they live at 422 Douglas Lane, Clinton. They have four children, Lisa, Mildred and Darrell Sproles and Renee Gilbert.

Warren was born in Humphreys County and joined Union Carbide at ORNL in 1951. Prior to that time he worked for Roane-Anderson Company and operated a service station.

He and his wife, the former Jolly Mae Lynch, live at 120 Goucher Circle, Oak Ridge. They have three children, J. Don, J. Michael and Marilyn Shannon.



SAFETY LAURELS — Herbert E. Trammell, director of the Engineering Technology Division, accepts a plaque marking 30 years of operations without a disabling injury. Jack M. Case, manager of the Y-12 Plant, is at the left; Clarence E. Johnson, safety director for Y-12 and Pat Porter, safety engineer are at the right. Since the division began in 1950 as the Reactor Division, the organization has contributed significantly to Y-12's overall safe operations.

Question Box

Can illness defer merit raise?

QUESTION: Can a weekly salaried employee's performance rating be lowered and his/her merit increase be delayed because of one period of absence due to illness?

ANSWER: As a general guideline, an extended nonoccupational disability absence in excess of twenty consecutive work days may delay a salary increase. Normally, one extended absence would not affect an employee's performance rating. If you have any further questions in connection with your own situation, please feel free to discuss it with your supervisor or with your division manager/director.

Telephone directory listings

QUESTION: Sometimes it is difficult to find services in the telephone directory. To whom should suggestions be forwarded?

ANSWER: The telephone directory is prepared by the Nuclear Division Telecommunications Department. Please forward any suggestions to M. L. Shelleman, Building 1916-T2, Mail Stop 602.

Clean-up task force report

(Continued from page 1)

office, and canteen at the Administration Building; the interior of the lunchroom at K-761 switchhouse; the exterior and interior of all buildings within the powerhouse area; and the vault areas within the K-35 building. In general, there have been some improvements in all areas as evidenced by the fact that the final inspection report shows no unsatisfactory ratings.

A total of four inspections during 1980, with full inspection teams and management, revealed areas where corrections could be made. Plant Manager Kenneth W. Sommerfeld led inspectors in the final tour of the year.

The area chairmen for the 1980 program were: Area 1 - Tony Dean, Maintenance Division manager; Area 2 - Frank Strang, manager of Barrier Manufacturing; Area 3 - Ed Krieg, department head in Project Engineering; Area 4 - Carl Peterson, manager of Shift Operations; Area 5 - Gus Legeay, manager of Operations; Area 6 - Jim Barker, manager of Employee Relations; Area 7 - Bob Merriman, manager of Enrichment Technology; Area 8 - Harold Osborne, General Purchasing agent; and Area 9 - Lynn Calvert, manager of Security and Plant Protection.

Evans announced that Tony Dean will serve as the 1981 plant chairman and pledged his continuing support to the program, stating that we should use our accomplishments this year as a base and reap even greater success in 1981.

Dean commended Evans on the achievements of the 1980 program. He announced that Conard Stair will assume responsibility for direction of the Maintenance Division's program in 1981 and will serve as chairman of the Plant Appearance Inspection Team. A meeting will be held on January 27 to announce other members of the organizational structure and to define and adopt objectives for the 1981 program.

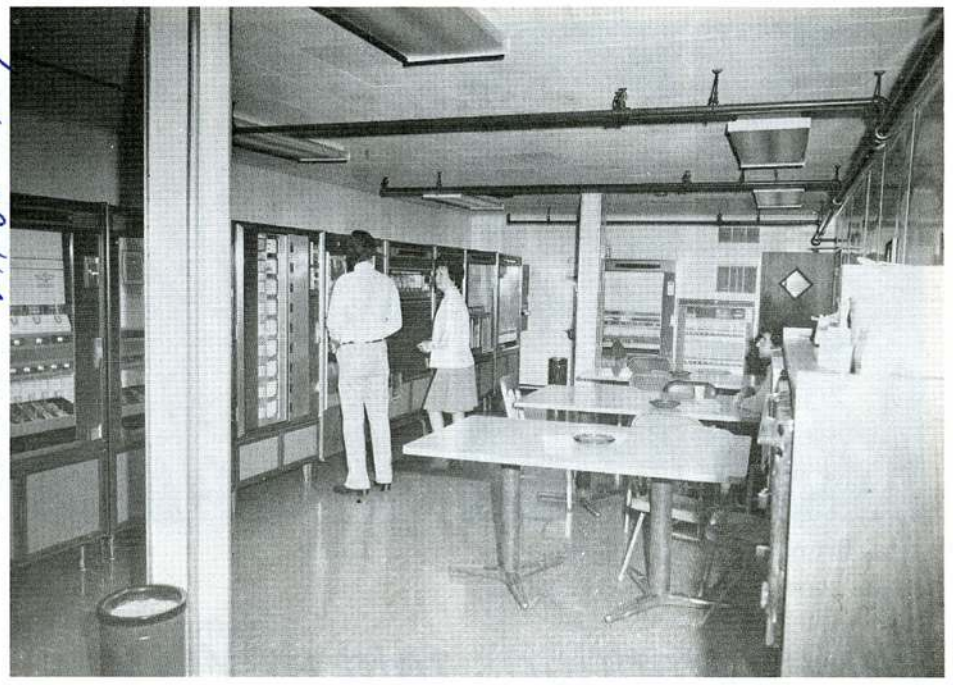
Symbol for 1981

'The Silver Whistle' presented again

The comedy "The Silver Whistle," which played to full houses in early December, has been scheduled for an additional two-night run on Friday and Saturday, January 23 and 24, at the Old Roane County Courthouse in Kingston.

The play, which features several Nuclear Division employees, begins at 8 p.m.

SHOP AREAS — Mary E. Hawkins, Material Quality Evaluation, discusses the appearance of her working area with Ernie Evans, left, and Kenneth W. Sommerfeld, right. Evans headed the task force for keeping the ORGDP environment clean and attractive in 1980.



Attractive new canteen area in Building K-1001

FINAL INSPECTION — Charles M. Douglas, in photo at left, and Frank J. Parris discuss shop appearance and cleaniness with Kenneth W. Sommerfeld, manager at ORGDP. Clean shop areas, in particular, contribute a great deal to the plant's safety performance and attitude, concluded the task force.

Safety Scoreboard

Time worked without a lost-time accident through January 8:

Y-12 Plant	108 Days	3,550,000 Employee-Hours
ORGDP	111 Days	3,194,837 Employee-Hours
ORNL	242 Days	5,563,533 Employee-Hours
Paducah	162 Days	1,502,699 Employee-Hours

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